

IFWO

RAW SEQUENCE LISTING DATE: 07/29/2004
PATENT APPLICATION: US/10/759,315 TIME: 11:36:37

Input Set : A:\08484~1.txt

Output Set: N:\CRF4\07292004\J759315.raw

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3 <110> APPLICANT: Bleck, Gregory T.
4 Bremel, Robert D.
5 Miller, Linda U.
7 <120> TITLE OF INVENTION: Production of Host Cells Containing Multiple Integrating Vectors

8 by Serial Transduction
10 <130> FILE REFERENCE: GALA-08484
12 <140> CURRENT APPLICATION NUMBER: 10/759,315
13 <141> CURRENT FILING DATE: 2004-01-16
15 <160> NUMBER OF SEQ ID NOS: 41
17 <170> SOFTWARE: PatentIn version 3.2
19 <210> SEQ ID NO: 1
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20 <211> LENGTH: 2101 21 <212> TYPE: DNA

22 <213> ORGANISM: Artificial Sequence

24 <220> FEATURE:

25 <223> OTHER INFORMATION: Synthetic

27 <400> SEQUENCE: 1



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1560

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86 acagtgcttc ccagaaccaa ccctacaaga aacaaagggc taaacaaagc caaatgggaa	1800						
88 gcaggatcat ggtttgaact ctttctggcc agagaacaat acctgctatg gactagatac	1860						
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94 gcccctgagg ctttctgcat gaatataaat atatgaaact gagtgatgct tccatttcag	2040						
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114 ggatccgatt acttactggc aggtgctggg ggcttccgag acaatcgcga acatctacac	180						
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136 gccaaaggaa tgcaaggtct gttgaatgtc gtgaaggaag cagttcctct ggaagcttct	240						
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148 aaccacgggg acgtggtttt cctttgaaaa acacgatgat aatatggcct cctttgtctc	600						
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172	cctggctgac	cacccaacaa	cccccacca	ttgacgtcaa	taatgacgta	tottcccata	300
174	gtaacgccaa	tagggacttt	ccattgacgt	caatgggtgg	agtatttacg	gtaaactgcc	360
176	cacttggcag	tacatcaagt	gtatcatatg	ccaagtacgc	ccctattca	catcastasc	420
178	ggtaaatggc	ccacctaaca	ttatgcccag	tacatgacct	tatoggactt	tectactee	480
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184	aatgggagtt	tattttaaca	ccaaaatcaa	cgggactttc	geecedatee	taagaagtg	660
186	gcccattga	cacaaataaa	caataaacat	gtacggtggg	acctetatat	aacaacccc	720
188	catttaataa	accotcagat	cacctagaga	cgccatccac	aggeetatat	aaycayayct	780
190	agacaccaga	accgatccag	cctccacac	cccaagcttc	tagaaaata	gagagaaatt	840
192	caggacetca	ccataggata	gagetgtate	atcctcttct	tagtaggate	aggtagaggt	
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				gatttcacca			
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200	attaactato	caccatatat	aaaaaataaa	tttacaatat	ggggaggaga	cagcagtacg	1080
				cccgaagaca			1140
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204	tecteacet	caaccaacca	aggataggta	tattggggcc	aagggacccc	ggicaeegie	1260
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				ggcgtgcaca			1440
214	cadacctaca	tetaceacct	gaatgagag	gtgaccgtgc	gangataa	anagageate	1500
216	gaggggaaat	cttotoacaa	gaattacaag	cccagcaaca tgcccaccgt	ccaaggrgga	tanatasta	1560
218	gageceaaat	cagtetteet	cttcccccc	aaacccaagg	geeeageace	rgaacteerg	1620 1680
220	acceptage	tcacatacat	gataataaaa	gtgagccacg	acacccccat	gateteeegg	
222	acctogragg	tagaaaaaa	ggtggtggat	grgageeacg	aagaccccga	ggtcaagtte	1740
				aatgccaaga			1800
226	accaacagea	agaagtagaa	ggtcagcgtc	ctcaccgtcc aaagccctcc	aggaggagat	agagaaaaaa	1860
							1920
				ccacaggtgt acctgcctgg			1980
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				gggaaatgaa			
				ccgcttggaa			2280 2340
244	ccctatatat	ttgaggagga	ttactaggg	ttttggcaat	gtgagggeee	ggaaacctgg	2400
246	tctcttcaat	atcatasaa	aaggagttgg	tettecect	tattassass	gaatgeaagg	2460
248	tatagggagg	ctttccaccc	aagcagttee	tctggaagct	anangataa	tataaaaaa	2520
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				tctaggcccc			2820
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202	ccagegragg	Lyacagagig	accalcacct	gtaaggccag	rcaggatgtg	ggtacttctg	3000

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264 tagectggta ccagcagaag ccaggtaagg ctecaaaget getgatetae tggacateca
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266 cccggcacac tggtgtgcca agcagattca gcggtagcgg tagcggtacc gacttcacct
268 toaccatoag cagoetocag coagaggaca togocacota ctactgocag caatataqoo
                                                                          3180
270 tetateggte gtteggeeaa gggaecaagg tggaaateaa acgaaetgtg getgeaceat
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272 ctgtcttcat cttcccgcca tctgatgagc agttgaaatc tggaactgcc tctgttgtgt
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274 gcctgctgaa taacttctat cccagagagg ccaaagtaca gtggaaggtg gataacgccc
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276 tccaatcggg taactcccag gagagtgtca cagagcagga cagcaaggac agcacctaca
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278 gcctcagcag caccctgacg ctgagcaaag cagactacga gaaacacaaa gtctacgcct
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280 gegaagteac ceateaggge etgagetege eegteacaaa qaqetteaac aqqqqaqaqt
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282 gttagagatc taggcctcct aggtcgacat cgataaaata aaagatttta tttagtctcc
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284 agaaaaaggg gggaatgaaa gaccccacct gtaggttttgg caagctagct taaqtaacgc
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286 cattttgcaa ggcatggaaa aatacataac tgagaataga gaagttcaga tcaaggtcag
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288 gaacagatgg aacagetgaa tatgggecaa acaggatate tgtggtaage agtteetgee
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290 ccggctcagg gccaagaaca gatggaacag ctgaatatgg gccaaacagg atatctgtgg
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292 taagcagtte etgeeeegge teagggeeaa gaacagatgg teeceagatg eggteeagee
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296 cctgtgcctt atttgaacta accaatcagt tcgcttctcg cttctgttcg cgcgcttctg
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298 ctccccgage tcaataaaag agcccacaac ccctcactcg gggcgccagt cctccgattg
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300 actgagtege eegggtaeee gtgtateeaa taaaceetet tgeagttgea teegaettgt
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320 cattaccgcc atgttgacat tgattattga ctagttatta atagtaatca attacggggt
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322 cattagtica tagcccatat atggagticc gcgttacata acttacggta aatggcccgc
                                                                          240
324 ctggctgacc gcccaacgac ccccgcccat tgacgtcaat aatgacgtat gttcccatag
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326 taacgccaat agggactttc cattgacgtc aatgggtgga gtatttacgg taaactgccc
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328 acttggcagt acatcaagtg tatcatatgc caagtacgcc ccctattgac gtcaatgacg
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330 gtaaatggcc cgcctggcat tatgcccagt acatgacctt atgggacttt cctacttggc
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334 atgggcgtgg atagcggttt gactcacggg gatttccaag tctccacccc attgacgtca
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336 atgggagttt gttttggcac caaaatcaac gggactttcc aaaatgtcgt aacaactccg
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346 tecaetecea ggtecagetg gtecaateag gggetgaagt caagaaacet gggteateag
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348 tgaaggtete etgeaagget tetggetaea eetttaetag etaetggetg eactgggtea
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350 ggcaggcacc tggacagggt ctggaatgga ttggatacat taatcctagg aatgattata
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354 cageetaeat ggagetgage ageetgaggt etgaggaeae ggeattttat ttttgtgeaa
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				cctccagcag			1500
				ccaaggtgga			1560
				gcccagcacc			1620
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				tgcaccagga			1860
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382	ccaagaacca	gatagagaa	acatacataa	tcaaaggctt	gtataggagg	gaggagatga	
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				acaactacaa			2100
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330	agageetete	atagagaga	gggaaatgaa	agccgaattc	geecetetee	ctcccccc	2280
				taaggccggt			2340
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				ccccagtgcc			2640
				gtattcaaca			2700
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VERIFICATION SUMMARY

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